CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/Cube/2018-19 14.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2018	14.05.2018	8.115	485.6	21.58
2	16.04.2018	14.05.2018	8.257	490.8	21.81
3	16.04.2018	14.05.2018	8.315	513.0	22.80

*Information is furnished by the Customer/Representative.

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Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Technical Manager

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610/Cube/2018-19 14.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 14.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2018	14.05.2018	8.233	478.6	21.27
2	16.04.2018	14.05.2018	8.387	510.4	22.68
3	16.04.2018	14.05.2018	8.405	522.9	23.24

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/Cube/2018-19 21.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID	: Drain Deck Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 21.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2018	21.05.2018	8.115	498.9	22.17
2	23.04.2018	21.05.2018	8.220	516.4	22.95
3	23.04.2018	21.05.2018	8.380	522.9	23.24

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-III/Gradation/2018-19 Date 23.04.2018

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency : **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work : Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference : BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID : Coarse Graded - III

Technical Reference : IS : 2720 (Part - 4)1985 (RA-2010), MORTH Table 400-2
Date of Testing : 23.04.2018

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
26.5	0	0	0.00	100.00	100
4.75	3280	3280	65.60	34.40	25-45
0.075	1505	4785	95.70	4.30	< 10
PAN	215				
Total	5000				

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* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading III

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-III/AL/2018-19 Date 23.04.2018

TEST REPORT ON ATTERBERG LIMITS TEST FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to RCC drains and CC roads at adjacent cross roads in Annamma temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID	:	GSB (Coarse Graded-III)
Technical Reference	:	IS : 2720 (Part - 5) 1985 (RA-2010), MORTH Table : 400-1
Date of Testing	:	23.04.2018

Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	25.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading III

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